

AMENDMENTS TO THE CLAIMS

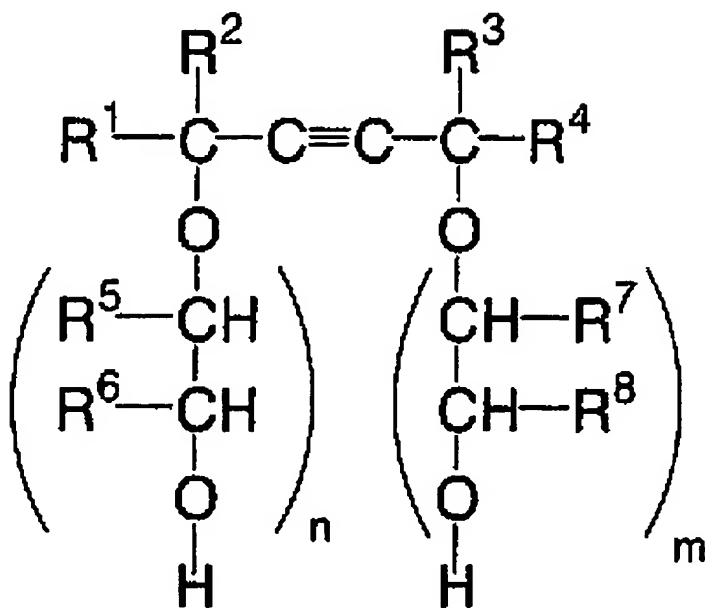
This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently amended) A heat-sensitive recording material comprising, on a support, at least a heat-sensitive recording layer and a protective layer in that order,

wherein the protective layer contains an acetylene glycol derivative represented by the following formula (1) in an amount of 2% or more by mass of solid content in the protective layer, a water-insoluble dispersion in an amount of 5% or more by mass of the solid content in the protective layer, and a water-insoluble organic material in a form of an emulsion in an amount of 5% or more by mass of the solid content in the protective layer:

Formula (1)



wherein in formula (1), R^1 to R^4 each independently represent a hydrogen atom, a branched, linear or cyclic substituted or unsubstituted alkyl group having 1 to 8 carbon atoms, or a substituted or unsubstituted aryl group having 6 to 10 carbon atoms; R^5 to R^8 each independently represent a hydrogen atom or a methyl group; and n and m each independently represent an integer of 0 to 50, and

wherein:

(i) the water-insoluble dispersion comprises an inorganic pigment having a 50%-volume-average particle size of 0.10 to 5.00 μm , and the inorganic pigment is coated with at least one selected from the group consisting of higher fatty acids, metal salts of higher fatty acids, and higher alcohols; and/or

(ii) the water-insoluble organic material comprises a lubricant which is in liquid form at ordinary temperature and the lubricant is selected from the group consisting of silicone oil, liquid paraffin and lanolin.

2. (Original) A heat-sensitive recording material according to claim 1, wherein the sum of n and m in formula (1) is 6 or less.

3. (Original) A heat-sensitive recording material according to claim 1, wherein R^1 in formula (1) is selected from the group consisting of methyl, ethyl, n-propyl, isopropyl, n-butyl, isobutyl, cyclohexyl, phenyl and naphthyl groups.

4. (Original) A heat-sensitive recording material according to claim 1, wherein R^2 in formula (1) is selected from the group consisting of methyl, ethyl, n-propyl, isopropyl, n-butyl, isobutyl, cyclohexyl, phenyl and naphthyl groups.

5. (Original) A heat-sensitive recording material according to claim 1, wherein R^3 in formula (1) is selected from the group consisting of methyl, ethyl, n-propyl, isopropyl, n-butyl, isobutyl, cyclohexyl, phenyl and naphthyl groups.

6. (Original) A heat-sensitive recording material according to claim 1, wherein R⁴ in formula (1) is selected from the group consisting of methyl, ethyl, n-propyl, isopropyl, n-butyl, isobutyl, cyclohexyl, phenyl and naphthyl groups.

Claim 7 (Canceled)

8. (Currently amended) A heat-sensitive recording material according to claim ~~7~~ 1, wherein the inorganic pigment is selected from the group consisting of calcium carbonate, titanium oxide, kaolin, aluminum hydroxide, amorphous silica, and zinc oxide.

9. (Currently amended) A heat-sensitive recording material according to claim ~~7~~ 1, wherein the water-insoluble dispersion comprises an inorganic pigment having a 50%-volume-average particle size of 0.10 to 5.00 μ m, and the inorganic pigment is coated with at least one selected from the group consisting of higher fatty acids, metal salts of higher fatty acids, and higher alcohols.

10. (Original) A heat-sensitive recording material according to claim 1, wherein the water-insoluble dispersion comprises a surface gloss adjusting agent.

11. (Original) A heat-sensitive recording material according to claim 1, wherein the water-insoluble dispersion comprises a matting agent.

12. (Original) A heat-sensitive recording material according to claim 1, wherein the water-insoluble organic material comprises a lubricant which has a melting point of 160°C or less, and is in solid form at ordinary temperature.

13. (Original) A heat-sensitive recording material according to claim 1, wherein the water-insoluble organic material comprises a lubricant which is in liquid form at ordinary

temperature and the lubricant is selected from the group consisting of silicone oil, liquid paraffin and lanolin.

14. (Original) A heat-sensitive recording material according to claim 1, wherein the water-insoluble organic material has an average particle diameter of 0.1 to 5.0 μm .

15. (Original) A heat-sensitive recording material according to claim 1, wherein the protective layer further comprises a binder selected from the group consisting of polyvinyl alcohol, carboxy-modified polyvinyl alcohol, and silica-modified polyvinyl alcohol.

16. (Original) A heat-sensitive recording material according to claim 1, wherein the dry coated amount of the protective layer is from 0.2 to 7 g/m^2 .

17. (Original) A heat-sensitive recording material according to claim 1, wherein the support is a polymer film.

18. (Original) A heat-sensitive recording material according to claim 1, wherein all of the layers are simultaneously formed by multi-layer coating with an extruding die.

19. (Original) A heat-sensitive recording material according to claim 18, wherein the coating speed of the layers in the multi-layer coating is 100 m/min or more.